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USER MANUAL
GEBRAUCHSANLEITUNG
MANUEL D'UTILISATION
MANUAL DE FUNCIONAMIENTO
MANUALE D'USO
GEBRUIKSAANWIJZING
РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ
ユーザーマニュアル
用户手册

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EL-Skyport Transmitter Plus HS

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Tolerances and specifications conform to IEC and CE standards. Technical data subject to change without notice.

INTRODUCTION

Dear Photographer,

Thank you for choosing ELINCHROM.

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All Elinchrom products are manufactured using the most advanced technology. Carefully selected components are used to ensure the highest quality and the equipment is subjected to many tests both during and after manufacture. We trust that it will give you many years of reliable service.

Please read this User Manual carefully before you use your new Elinchrom product. You will find information for your safety and how to benefit from all the programmable features.

This Manual may show images of products with accessories which are not part of sets or single units. Elinchrom set and single unit configurations may change without advice and may differ in other countries.

For further details, upgrades, news and the latest information about the Elinchrom system, please regularly visit the Elinchrom website. The latest user guides and technical specifications can be downloaded from the “Support” area.

Technical data, features and functions of Elinchrom flash units and accessories may change without notice. The listed specification can differ due to tolerances in components or measuring instruments. Technical data is subject to change. No guarantee for misprints.

Please check for the most recent manual at our website: www.elinchrom.com/support

Thanks,
Your Elinchrom-Team

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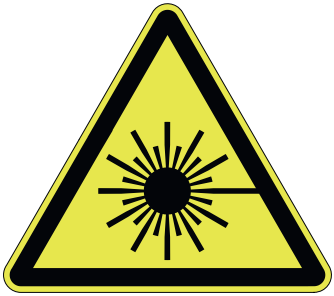

The Product is classified as a Class 3R laser product, according to the following standards IEC/EN 60825-1 “Radiation Safety of Laser Products”.

Class 3R: A Class 3R Laser is considered safe if handled carefully, with restricted beam viewing. With a class 3R laser, the MPE can be exceeded, but with a low risk of injury. Visible continuous lasers in Class 3R are limited to 5mW. For other wavelengths and for pulsed lasers, other limits apply.

DECLARATION OF CONFORMITY USA AND CANADA

EN This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This product complies with the Canadian ICES-003 Class B specifications.

FR Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes(1) ce dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radiation Exposure Statement

EN This equipment complies with portable RF exposure limit in Canada and the USA set forth an uncontrolled environment and is safe for intended operation as described in this manual. Further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body.

FR Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats- Unis et le Canada établies pour un environnement non contrôlé. Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être utilisé aussi loin que possible du corps de l'utilisateur.

FCC Class B Compliance note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device is limited to operation on permissible Part 15 frequencies, and it does not have the ability to be configured by end users or professional installers to operate outside the authorized bands.

EL SKYPORT TRANSMITTER PLUS HS

VERSIONS

The ELSP Transmitter Plus HS is available for the following cameras

- Canon
- Nikon

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FEATURES

- Large graphic control display.
- Display Illumination in green or red (green for Normal Sync Mode, red for Speed Sync Mode).
- Fast access buttons and rotating wheel for easy control.
- Secure Hot-Shoe connection with bayonet locking system.
- Standard 2 AA Batteries (accepts rechargeable batteries).
- 2.5mm jack trigger output.
- Firmware update with integrated Mini USB socket.
- 40 Remote channels.
    - 20 frequency channels* in Normal Sync mode.
    - 20 frequency channels* in Speed Sync mode.
- 4 Groups and ALL .
- EL-Skyport Sync Modes.
    - Normal Sync Mode (maximum distance range).
    - Speed Sync Mode (faster shutter speed particularly when HS is activated, but reduced distance range).
- Sync Modes***.
    - Standard (using the middle contact of the Hot-Shoe).
    - HS **** (Sync up to 1/8000s, controlled automatically).
    - ODS (manual Over-Drive-Sync) fine tune the timing of HS for maximum power and even exposure.
    - Second curtain sync mode****.
- AF Light integrated***.
- Auto MOD *** to control the modelling light of Elinchrom flash units for focusing.
    - Shutter Mode***** (the half pressed shutter release controls the modelling lamp).
    - DOF Mode (the camera “DOF” (Depth Of Focus) button controls the modelling lamp).
- REMOTE Control** with automatic feedback from Elinchrom flash units.
    - EL – flash units can be controlled “All” together, in “Groups” or “Single” units.
    - Flash power up & down.
    - Modelling lamp on/off or intensity up & down.
- Sleep mode and Auto OFF mode programmable.
- RESET to standard settings.

* For all the latest Elinchrom flash units with 20 frequency channels, and compatible with earlier models.

** For all Elinchrom flash units with built-in EL-Skyport Receiver and Transceiver.

*** Extended features for Canon and Nikon cameras with TTL Hot-shoe (Limited features for Nikon, see below).

**** These features are not supported by Nikon, but can be activated in the camera menu.

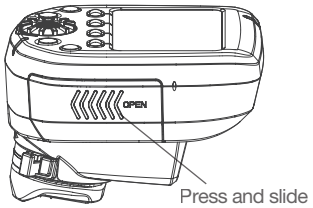
***** Not supported by Nikon.

INSTALLING THE BATTERIES

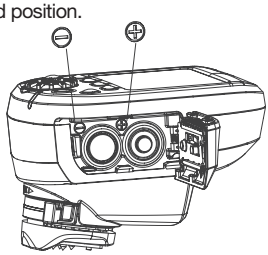
Press the battery compartment cover and slide it in the direction of the arrow to open the battery cover (See Picture 1).

Insert the batteries. Make sure the “+” and “-” battery contacts are correctly oriented (See Picture 2). (Note: Please use 2 pieces of AA alkaline batteries or AA type NIMH batteries).

Press cover against Transmitter and slide it back into the locked position.



Picture 1



Picture 2

BATTERIES

- 2x AA batteries are used for the Transmitter.
- Installing the batteries improperly will not damage the Transmitter.
- Non-rechargeable (dry cell) AA batteries like zinc–carbon, Alkaline types or rechargeable batteries in the AA size such as nickel-cadmium (NiCd) or nickel-metal hydride (NiMH) can be used.
- Do not mix battery types.
- Do not use Lithium AA batteries in this transmitter.

COMPATIBILITY

There are three different Elinchrom EL-Skyport flash unit Generations in the market:

1ST GENERATION

- EL-Skyport Transceiver RX module (Style RX, Digital RX, Ranger RX).

2ND GENERATION

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- Built-in EL-Skyport module Mk1 (BRX, D-Lite RX, Quadra, Quadra Hybrid).

3RD GENERATION

- Built-in EL-Skyport module Mk2 (ELC and ELB).
  This generation offers extended distance range

TRIGGERING

Triggering works with all existing Elinchrom flash units with built-in or plug-in EL-Skyport Transceivers.

REMOTE CONTROL

WHEN ALL OR GROUP 1 - 4 IS SELECTED

- All Elinchrom flash units with EL-Skyport are supported when changing “PWR±, MOD± or MOD on/off”. When modelling lamp power settings are changed with the MOD on/off or MOD+/- button,the Elinchrom flash in use will switch to free modelling mode. To return to proportional modelling lamp mode, settings must be made on the EL flash unit.
- Some units do not support all modelling features, “--“ is then displayed (i.e. for Ranger, Quadra, ELB400).

WHEN A SINGLE UNIT IS SELECTED

- The selected unit is highlighted with a frame in the display and can be controlled individually.
- Only Elinchrom flash units with built-in EL-Skyport receivers of the 2nd and 3rd generation are supported.

Note:

1st Generation units are detected, but will show “--“ in the display. There is no feedback of the unit settings to the EL-Syport Transmitter Plus HS, but they will be triggered normally.

FREQUENCY CHANNELS

Some older Elinchrom flash units with EL-Skyport built-in will support Frequency channels 1 to 4 or 1 to 8 (such as BRX, D-Lite RX, Quadra).

The latest Elinchrom flash units with EL-Skyport built-in will support up to 20 different Frequency channels 1 to 20 (ELC, ELB).

TECHNICAL DATA

PARAMETER	SPECIFICATION
VERSIONS	Canon, Nikon.
TRIGGERING COMPATIBILITY	ALL Elinchrom flash units with built-in EL-Skyport Receiver or Transceiver and the EL-Skyport RX Transceiver modules, plus EL-Skyport Universal.
REMOTE CONTROL COMPATIBILITY	ALL Elinchrom flash units with built-in EL-Skyport Transceiver: ELC Pro HD, ELB 400, Ranger Quadra RX, Quadra Hybrid, D-Lite RX series, BRX Series, Master RX Series and FRX series (NOTE: EL-Units used with the plug-in Transceiver RX module have limited remote features).
DISTANCE RANGE	Indoor > 60m. Outdoor > 200m. Note: The full distance range is available with the latest Elinchrom flash units such as ELC or ELB. Other, or older Elinchrom flash units will have a limited distance range.
BATTERIES	2x AA batteries (standard or rechargeable).
BATTERY LIFETIME	Depends on the type of batteries and the usage. For two standard batteries with 1000mAh each it is approx. 35 hours working time and more than 15000 trigger releases.
REMOTE CONTROL	Max. 10 units can be detected displayed and remote controlled.
FREQUENCY CHANNELS	20 channels in Normal mode and 20 channels in Speed mode.
EL-SKYPORT MODES (ELSP)	Normal / Speed - Sync mode.
TRIGGER/CONTROL GROUPS	“All” or in “Groups” (Group 1 to 4).
SYNC MODES	Standard, HS (with or without ODS), Second Curtain.
USB SOCKET	For firmware updating.
SR SOCKET	Trigger Output 2.5mm Phone Jack mono (max. sync-voltage 3VDC).
DIMENSIONS (W x L x H)	69 x 84 x 59 mm (2.7x 3.3x 2.3 in.)
WEIGHT	Approx. 170g (6 oz) ,including 2x AA-batteries. 120g (4.2 oz) without batteries.

HOT-SHOE ADAPTER

FEATURES

The Elinchrom Skyport Plus HS transmitter can be used for basic trigger with power control for any camera having a “hot shoe’ type flash connection. The features described below require a Canon or Nikon camera that is compatible with the Skyport system. To operate properly, the Skyport HS transmitter offers special connection pins for communication with the attached camera.

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There are two different Elinchrom Transmitter versions available:

- Canon for Canon EOS type A cameras compatible with ETTLII/ETTL autoflash.
- Nikon for Nikon DSLR cameras compatible with iTTL flash units.

Specilized communication terminals in the camera’s hotshoe mount enable the following Elinchrom Skyport HS features:

- SYNC Mode
- HS and ODS Mode
- Second Curtain Sync
- Auto MOD
- AF Light

Note: Not all cameras are supported for all features.

LIST OF TESTED CAMERAS

The latest summary of camera models and supported features can be found on the Elinchrom website at:
http://www.elinchrom.com/support.php

MOUNTING ON THE CAMERA

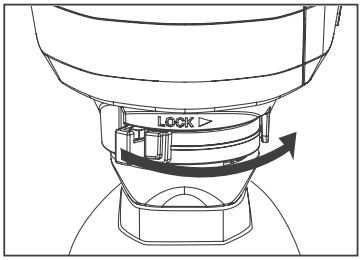
An easy locking bayonet mechanism is used to lock the Transmitter securely into the Camera’s hotshoe.

ATTACHING

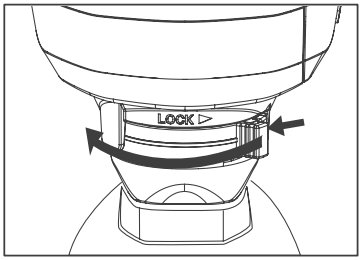
1. Turn off the camera and the EL-Skyport transmitter.
2. Align the EL-Skyport transmitter hotshoe with the camera’s hotshoe mount.
3. Slide it all the way into the camera’s hotshoe mount.
4. Move the tab on the locking ring to the right until it clicks in place. (See picture 3)

DETACHING

1. Unlock: press the lock-release button and move the tab all the way to the left. (see picture 4)
2. Slide the EL-Skyport transmitter off the camera’s hotshoe mount.



Picture 3



Picture 4

DISPLAY

The graphic display shows the status and settings of the Elinchrom unit.

The display illumination can be switched on or off.

In Normal Sync mode, the illumination is green. In Speed Sync mode, the illumination is red.

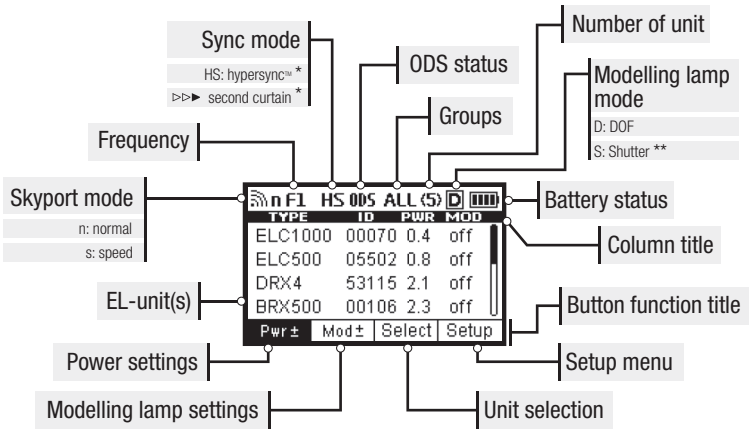
The contrast of the display can be adjusted in the setup menu.

The top bar of the display shows the status of the Elinchrom Transmitter.

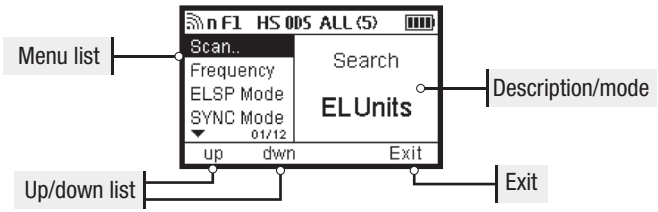
The bottom bar in the display shows the functions of the 4 speed buttons.

The middle area shows a list of the Elinchrom flash units detected, It also shows setup items for the Setup menu when selected.

DISPLAY PANEL - DASHBOARD



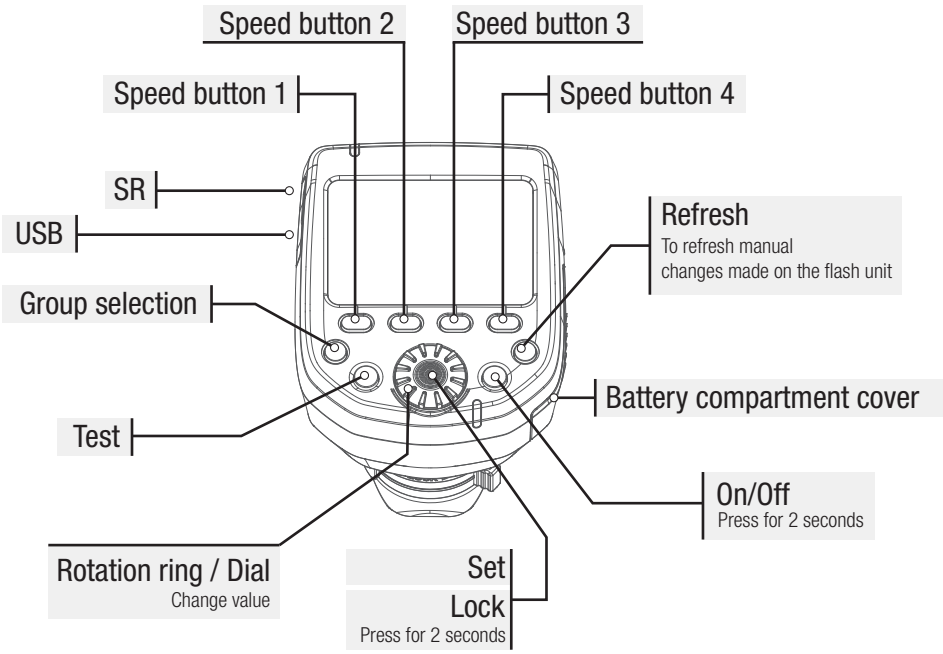
DISPLAY PANEL - SETUP MENU



* In Nikon cameras, these features are activated in the camera's menu.

** Not supported by the Nikon system.

BUTTONS



SPEED BUTTONS 1-4

The Speed Buttons enable quick setting of the functions indicated below. Functions in Bold type indicate the function of these buttons when SETUP mode is selected.

SPEED BUTTON 1 (LEFT)

Pwr± change the flash power in 1/10 f-stop up/down with the dial.

up scroll up in the setup menu when SETUP is selected.

SPEED BUTTON 2 (MIDDLE LEFT)

Press this button once or twice to toggle between the modelling lamp features.

Mod switch the modelling lamp on/off with the dial.

Mod± change the modelling lamp power in 1/10 f-stop up/down with the dial.

down scroll down in the setup menu when SETUP is selected.

SPEED BUTTON 3 (MIDDLE RIGHT)

Select toggle between the displayed (found) Elinchrom flash units.

Flash and modelling lamp settings can be individually adjusted on the selected flash unit, when highlighted with a frame.

After approx. 5 seconds the frame will disappear and adjustments in the settings will affect all units in all Groups, when Group “ALL” is selected. If Group 1 – 4 is selected only the flash units in that Group will be modified.

SPEED BUTTON 4 (RIGHT)

Setup by pressing this button the functions of the speed buttons will change and the SETUP menu is selected. In the SETUP menu features can be adjusted and activated.

Exit Exit the Setup menu and switch back to standard display mode.

ON/OFF

Press and hold for min. 2 seconds to switch the EL-SkyportTransmitter Plus HS On/Off.

GROUP BUTTON

Press to toggle between 1 through 4 groups and “ALL.”

TEST BUTTON (WITH EL LOGO)

Pressing the TEST button will fire all flashes when “ALL” is selected or any single group, 1 through 4 is selected. Please remember to deactivate photocells for accurate
EL-Skyport triggering of your flash units.

REFRESH BUTTON

Press the Refresh button any time power setting has been done on a separate EL flash unit to update the power setting display of the Skyport HS.

If a Group is selected, only the information for that selected Group will refresh.

When “ALL” is selected, information for all groups will be refreshed.

A flash that was not scanned and found when the Skyport HS was switched ON cannot be added with the Refresh feature.

If a flash is added, select SETUIP and SCAN in the setup menu or switch the transmitter OFF and ON again.

The refresh can take up to 4 seconds, depending on how many flash units are found and operated by the transmitter.

Note:

To assure the most positive operation between the Skyport HS and EL flashes, flash power information is transmitter by the EL flash only when power level changes are made or the Refresh button is pressed.

ROTATING RING / DIAL

Turn the Dial to select various functions and change power levels of the EL flashes.

SET / CONFIRMATION BUTTON (DIAL CENTRE BUTTON)

Press to confirm a modification made in the Setup menu.

Press to switch on the display illumination.

Press to return to normal operation when Skyport HS has switched to Standby mode.

Press 2s to lock all functions and settings. Press again to unlock.

The locking feature blocks the function of the dial and other buttons to prevent mis-setting while carrying the Skyport HS.

SETUP MENU

SCAN..

When the Skyport HS is switched ON, it will automatically search for Elinchrom flash units with built-in or plug-in EL-Skyport Transceiver modules.

The Scan feature is also available in the Setup Menu. A re-scan is required, when new flash units have been added to the lighting setup.

To find EL flash units,

- all EL flash units must be switched on,
- all flashes must have built-in or plug-in EL-Skyport Transceiver modules.
- the Transmitter Plus HS and the EL flash unit must be set for the same frequency channel settings.

FREQUENCY CHANNELS

Up to 20 EL-Skyport frequency channels can be selected.

Note:

- Only the latest Elinchrom flash units (ELC 500/1000 Pro HD, ELB 400 and future versions) will support up to 20 frequency channels.
- All “RX” flash units will support up to 8 channels and some older Elinchrom flash units support up to 4 channels.

ELSP MODE

The Skyport HS has two operating modes that offer different shooting functionality

Phil is using the above sentence as he doesn’t know what to say about this. The first sentence and note below it should be at the bottom as they are operational info. The statement of Speed mode reducing communication time has no interest to the user and thus is of no value to them.

- **Normal mode**
  Normal mode is compatible with the very first Elinchrom flash units incorporating EL-Skyport.
  When selected, display illumination and status LED will light in green.
- **Speed mode**
  The Speed mode enables faster shutter speeds of up to 1/1000s depending on the camera using normal flash synchronisation (i.e. for leaf shutter cameras and some mirrorless).
  To use shutter speeds of up to 1/8000s the HS mode must be activated when used in both Normal and Speed mode.The display illumination and status LED are displayed in red when is in speed mode.

Note:

- The greatest working distance is available in Normal mode. Speed mode reduces working distance by 50%. Skyport transceivers in all remote flashes must have EL-Skyport mode capability to use Speed mode.

SYNC MODE

Select the synchronization mode:

- **Standard mode**
  In Standard mode most cameras will work with shutter speeds up to 1/200s - 1/250s.
- **HS Hi-Sync mode***
  In HS mode the shutter speed can be up to 1/8000s depending on the camera and the flash unit.
  The HS mode requires flash units or flash heads with a long flash duration for best results.
  Heads or flash units equipped with the A flash tubes (Action) are not recommended.
- **Second Curtain mode***
  The Second Curtain mode gives the ability to fire the flash just before the shutter closes, for moving effects.

* With Nikon cameras, these features are activated within the camera menu.

ODS SETUP

The Over-Drive-Sync (ODS) can improve the overall exposure, when the HS Sync mode is active.

ODS relies on flash units with long flash durations, so results will depend on the flash duration of the lights used (which also changes at different power levels), as well as the camera used. Full frame cameras with large sensors and slow shutters are unfortunately the hardest to get good results with, but lights with long enough flash durations can still achieve clean frames all the way to 1/8000th. In addition using ODS, they can gain up to 2 f-stops more light, essential when sun light must be overpowered.

The ODS Setup offers adjustment from 0.1 to 5.0 ms or can be switched off.

The ODS value will vary depending on the camera and the flash unit which is used and must be adjusted manually

Note:

- Over-Drive-Sync (ODS) can only be used when the SYNC mode is set to HS.
- When ODS is adjusted, the position of the flash cutoff (dark edge at top or bottom of picture) can be moved within the frame. When switched OFF, the flash trigger point will be selected automatically when in HS mode.

AUTO MOD

- **Off**
  The modelling light of the Elinchrom flash units does not change.
- **Shutter****
  Pressing the camera's shutter button for focusing will cause the modelling lamp of the EL flash unit will switch on for a few seconds as an aid to focusing in low light. (Not supported by Nikon)
- **DOF**
  The Elinchrom flash units will switch on their modelling lamp for as long as the DOF (Depth of field) button on the camera is held.

AF LIGHT

Activates the Auto-Focus assist light of the Skyport HS when the shutter release is half pressed for focusing (check also camera settings).

KEY CLICK

When activated, pressing any control button will be indicated by a beep tone.

SLEEP

When not uise for a time, the Skyport HS will switch to Sleep Mode to save battery power.

Delay Sleep mode from 1 to 60 minutes or turn OFF.

AUTO OFF

The Skyport HS will automatically turn OFF when left unattended for a time.

Delay Auto Off start from 1 to 60 minutes or turn OFF.

When Sleep mode and Auto Off are both active, the Transmitter Plus HS will switch the power OFF at the user set Sleep Mode delay.

CONTRAST

The display contrast can be adjusted from 80 to 120%

BACKLIGHT

The display illumination of the device can be switched on/off

* With Nikon cameras, these features are activated within the camera menu.

** Not supported by Nikon.

MANUFACTURING RESET

Pressing and holding in the Left and Right Speed buttons while switching the Skyport HS ON (approximately 2 seconds) will reset the Skyport HS to manufacture settings. All user settings, except the display contrast, will be reset.

FIRMWARE UPDATE

To update the Firmware of the Transmitter Plus HS, the Elinchrom Transmitter HS Updater is required. Available from the Elinchrom website.

TROUBLESHOOTING

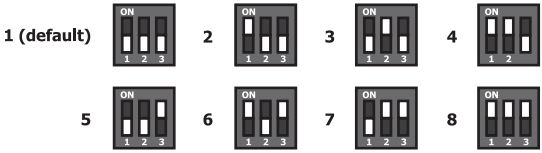
Pressing and holding in the Left and Right Speed buttons while switching the Skyport HS ON (approximately 2 seconds) will reset the Skyport HS to manufacture settings. All user settings, except the display contrast, will be reset.

HAVING THIS PROBLEM?	PLEASE CHECK THE FOLLOWING POINTS:
THE UNIT IS NOT SWITCHING ON	• Check battery polarity and replace both discharged batteries.
FLASH UNIT CANNOT BE TRIGGERED WHEN THE MODE "ALL" IS SELECTED	• Transmitter and receiver must have the same frequency channel settings. • ELSP MODE: transmitter and receiver must have the same synchronisation mode settings: normal or speed sync mode. • Check that the EL-Skyport receiver in all EL-units with built-in receivers, is switched on. • Check that the transmitter version corresponds to your Canon or Nikon camera.
SOME UNITS ARE NOT TRIGGERING WHEN THE GROUP MODE IS SELECTED	• Check the group settings of the EL- flash unit. • Reduce the distance to any unresponsive unit. • Transmitter and receiver must have the same synchronisation mode settings: normal or speed sync mode, and frequency channel settings.
THE TEST BUTTON WORKS, BUT THE CAMERA WILL NOT TRIGGER FLASH UNITS	• Check the hotshoe fitting. • Check the camera settings (turn hotshoe communication on). • Check that the transmitter version corresponds to your Canon or Nikon camera. • Check the list of compatible cameras.
SOME INFORMATION IS NOT DISPLAYED ABOUT DIGITAL RX, RANGER RX OR STYLE RX UNITS	• Units equipped with a plug-in Transceiver RX are limited in remote features. These units can however be triggered and controlled (but with no visual feedback) by the EL-Skyport Transmitter Plus HS.

LIMITED DISTANCE RANGE:	• Reposition the units. • Increase the distance from walls and ceilings. • ELSP Mode: In speed sync mode the distance range is reduced by approximately 50 %, switch back to normal sync mode. • Outdoors, the distance range could be reduced due to humidity, interference, obstacles etc.
INTERFERENCE WITH OTHER 2.4 GHZ NETWORKS, UNRELIABLE TRIGGERING:	• Try another frequency channel for both transmitter and the receiver of the EL-unit. • Reduce the distance between the flash unit and transmitter.
HS MODE; SYNC UP TO 1/8000S:	• Elinchrom Action (previously A) heads are not optimised for the HS mode. To benefit from better performance please use flash units with Pro flashtubes (Standard or S previously) or ideally use with dedicated HS heads. • ODS fine tuning helps to optimise HS performance. • If there is visible banding please reduce the shutter speed on your camera, or set ODS and adjust to minimise or avoid banding. • HS functionality only works with Canon or Nikon cameras and the appropriate transmitter.
SCANNING EL-UNITS: **NO EL-UNIT FOUND, OR SOME UNITS ARE MISSING.**	• Switch on all enabled EL-units, than switch on the EL-Skyport Transmitter Plus HS on or go to setup and rescan. • Frequency, group and ELSP mode settings must match with the transmitter. • Ensure that all EL-Skyport Transmitter Plus HS enabled units are operating on the latest firmware.

FREQUENCY CHANNEL FOR EL-SKYPORT SPEED RECEIVERS

This is not relevant to this product, but it may help with frequency set-up on legacy EL-Skyport units.



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DOWNLOAD THE EL-SKYPORT TRANSMITTER PLUS HS USER GUIDE

Obtain the complete user guide using this link: http://bc.gs/elspths

DOWNLOAD CONFORMITY

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